

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 794 642 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.01.1998 Bulletin 1998/02

(51) Int. Cl.⁶: **H04L 29/06**

(43) Date of publication A2:
10.09.1997 Bulletin 1997/37

(21) Application number: **97101184.6**

(22) Date of filing: **25.01.1997**

(84) Designated Contracting States:
DE FR GB SE

(30) Priority: **26.02.1996 FI 960894**

(71) Applicant:
NOKIA MOBILE PHONES LTD.
24101 Salo (FI)

(72) Inventor: **Ketola, Pekka**
33230 Tampere (FI)

(74) Representative:
Johansson, Folke Anders
Nokia Mobile Phones Ltd.,
Patent Department,
P.O. Box 100
00045 Nokia Group (FI)

(54) Terminal device for using telecommunication services

(57) The terminal device according to the invention provides means for connecting said terminal device with telecommunication network for utilizing data based services and means for offering information processing services, such as display and means for data input. The user utilizes data processing services, e.g. WWW browser prior known from Internet, without a mouse or any corresponding pointing device. In the terminal device according to the invention the data connection with the telecommunication network is closed in order to save current and cost, when data transfer is not needed. The closing of the data connection is optimized between service speed and current saving. In the terminal device according to the invention the user interface and the use of WWW services are functionally divided into several logical levels.

EP 0 794 642 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 10 1184

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 605 349 A (IBM) * column 2, line 39 - column 3, line 22 *	1,2	H04L29/06
A	* column 4, line 1 - line 42 * * column 5, line 35 - column 7, line 25 * * column 8, line 31 - column 9, line 1 *	3-6	
X	WO 93 07684 A (SIXTEL) * page 13, line 15 - page 15, line 27 *	1-3	
A	EP 0 695 075 A (ATT) * abstract * * claims 1-3 *	1-6	
X	EP 0 666 681 A (TRANSACTION TECHNOLOGY, INC.) * column 17, line 10 - line 37 *	7,8	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04L
X	WO 94 12938 A (COMPAQ COMPUTER) * page 4, line 7 - page 6, line 32 * * page 26, line 24 - page 29, line 13 *	7,8	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 September 1997	Examiner Canosa Arete, C
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document			

EPO FORM 1503 (03.92) (P04001)



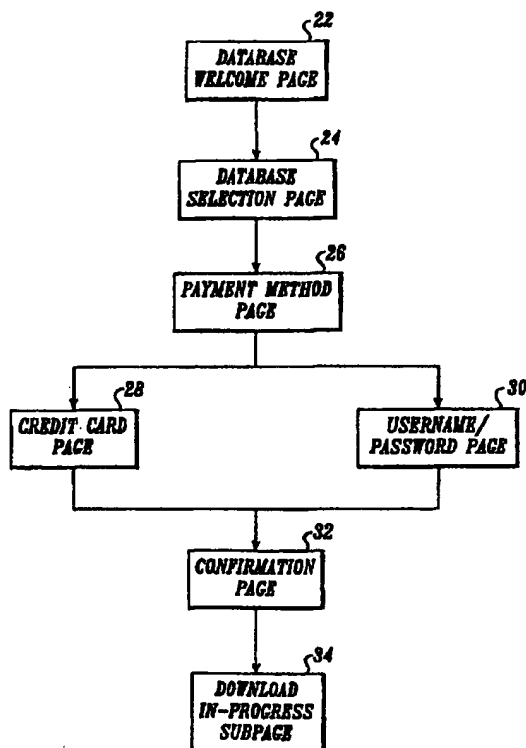
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 1/00		A1	(11) International Publication Number: WO 98/02793
			(43) International Publication Date: 22 January 1998 (22.01.98)
(21) International Application Number: PCT/US97/12021		(81) Designated States: European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 11 July 1997 (11.07.97)			
(30) Priority Data: 60/021,702 12 July 1996 (12.07.96) US Not furnished 22 May 1997 (22.05.97) US		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(71) Applicant: ALLIEDSIGNAL INC. [US/US]; 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07962-2245 (US).			
(72) Inventors: DILLARD, Kelly, E.; 1817 Ferrel Drive, Olathe, KS 66061 (US). GODDARD, David, L.; 6339 Berry Road, Kansas City, KS 66106 (US). SMITH, David, L.; 553 N. Mur-Len #300, Olathe, KS 66062 (US).			
(74) Agents: CRISS, Roger, H. et al.; AlliedSignal Inc., Law Dept. (C.A. McNally), 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07962-2245 (US).			

(54) Title: COPY PROTECTION FOR DATABASE UPDATES TRANSMITTED VIA THE INTERNET

(57) Abstract

A system for transmitting a database or other software over a communication link, such as the Internet, which prevents unauthorized use. In order to prevent such unauthorized use, the customer's equipment, such as a GPS unit, is provided with a unique software key. The updated database is ordered over the communication link by providing the unique software key and may include electronic payment information. The database is encrypted, for example, as a function of the unique software key and transmitted over the communication link in encrypted form along with an upload program. The upload program only allows the encrypted database to be uploaded into a unit with a matching software key. As such, the system allows updated databases to be transmitted rather quickly and easily over a communication link while preventing unauthorized use.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						